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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/909,898	07/23/2001	Yoshio Sugaya	211758US0	9196	
22850 7:	590 05/08/2002				
OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY			EXAMINER		
			ZITOMER, FRED		
ARLINGTON,	VA 22202		ART UNIT	PAPER NUMBER	
			1713	6	
			DATE MAILED: 05/08/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Application No.	Applicant(s)				
. Office Action Summary		09/909,898		Sugaya et al.			
		Examiner Fred Zitome	ner Fred Zitomer				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
	or Reply		,				
	ORTENED STATUTORY PERIOD FOR REPLY IS SET	TO EXPIRE3	MONTH	I(S) FROM			
	MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 C	FR 1.136 (a). In no ever	nt, however, i	may a reply be tim	ely filed		
aft - If the	er SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) days	cation. s, a reply within the statu	itory minimun	n of thirty (30) day	ys will		
be	considered timely. period for reply is specified above, the maximum statutory						
cor	mmunication. e to reply within the set or extended period for reply will, b						
- Any r	eply received by the Office later than three months after th	e mailing date of this con	nmunication,	even if timely filed	d, may reduce any		
ear Status	rned patent term adjustment. See 37 CFR 1.704(b).						
	Responsive to communication(s) filed on						
2a) 🗌	This action is <b>FINAL</b> . 2b) 💢 This ac	tion is non-final.					
	Since this application is in condition for allowance		tters, prose	cution as to the	merits is		
	closed in accordance with the practice under Ex pa	•	-				
Disposit	tion of Claims	·					
4) 💢	Claim(s) <u>1-12</u>		is/are	e pending in the	application.		
4a) Of the above, claim(s) is/are withdrawn from consideration.							
5) 🗆	Claim(s)			is/are allowed.			
6) 💢	Claim(s) 1-12		is/are rejected.				
7) 🗆	Claim(s)			is/are objected	to.		
8) 🗆	Claims	are subje	ect to restric	ction and/or elec	ction requirement.		
Applica	tion Papers				•		
9) 🗆	The specification is objected to by the Examiner.						
10)	10) The drawing(s) filed on is/are objected to by the Examiner.						
11)	The proposed drawing correction filed on	is: a)□	approved	b) disapprov	ed.		
12)	The oath or declaration is objected to by the Exam	niner.					
Priority	under 35 U.S.C. § 119						
13)💢	Acknowledgement is made of a claim for foreign ${\mathfrak g}$	priority under 35 U.S.	C. § 119(a)	)-(d).			
a) 💢	〗All b)□ Some* c)□ None of:						
•	1. 💢 Certified copies of the priority documents have been received.						
	2. ☐ Certified copies of the priority documents ha		•		·		
	<ol> <li>Copies of the certified copies of the priority of application from the International Burders that application from the International Burders that are the attached detailed Office action for a list of the control of the International Cont</li></ol>	eau (PCT Rule 17.2(a)	)).	i this National S	tage		
	Acknowledgement is made of a claim for domestic			(e).			
Attach	ant/c)						
Attachmo	ent(s) otice of References Cited (PTO-892)	18) Interview Summary	(PTO-413) Paner	No(s).			
~	otice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Pa					
17) X Inf	formation Disclosure Statement(s) (PTO-1449) Paper No(s). 5	20) Other:					

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1.

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

Claims 1 and 2 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1 and 2 of copending Application No. 09/909,904. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

2.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4,11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Terada et al., US 5,759,373, taken with Tomoi et al., US 5,350,523.

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Terada '373 teaches porous anion exchange membranes comprising strong base anion exchange resins, thermoplastic support polymers absent exchange groups and the instant amounts thereof [column 4, line 8 - column 5, line 12]. Vinylbenzyltrimethylammonium chloride and derivatives thereof, i.e polymers in the class of and/or encompassing resins within instant formula (1), are disclosed [column 5, lines 4-11]. The membranes are useful in electrodialyzers [column 3, lines 63-65]. Tomoi teaches anion exchange resins within instant formulas (1) and (2) [Abstract; column 3, lines 9-51]. More directly, component "n" of Tomoi is 3-18 which corresponds to and encompasses instant components "A" [column 3, lines 33-39]. The resins are characterized by enhanced thermal stability [column 3, lines 40-51]. It would have been obvious to prepare anion exchange membranes of the instant composition in the expectation of obtaining a separation component for electrodialytic devices because the required anion exchange resin, the thermoplastic support polymer and the suitability of the resultant composition for the intended disclosed purpose were all known at the time of the instant invention.

3.

Claims 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Terada et al., US 5,759,373, taken with Tomoi et al., US 5,350,523, as applied to claim 1-4,11 and 12 above, and further in view of MacDonald, US 5,045,171.

MacDonald teaches preparing membranes for electrodialysis apparatuses comprising a quaternary ammonium ion monomer [column 4, lines 52-59] and a thermoplastic support [column 8, lines 5-13] by mixing the two components and polymerizing the monomer [column 8, lines 13-

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24]. While MacDonald is silent on the irradiation step of present claim 10, the examiner takes

notice that the kind of polymerizations described by MacDonald and the primary references are

typically initiated with actinic irradiation. The embodiment is therefore obvious and not deemed to

impact patentability. It would have been obvious to prepare anion exchange resins by mixing an

ionic monomer with a thermoplastic polymer and then polymerizing the monomer because

MacDonald teaches the procedure.

4.

Tomoi et al., US 5,518,627, teaches anion exchange resins comprising instant formula (1)

and (2) monomer units.

5.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred Zitomer whose telephone number is (703) 308-2461. The examiner can normally be reached Monday through Friday from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful David Wu can be reached at (703) 308-2450. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 (before final) and (703) 872-9311 (after final).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-2351.

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FRED ZITOMER, PHD PRIMARY EXAMINER ART UNIT 1713

Zitomer/fz May 3, 2002